

Genel Malzeme Listesi

1. ANTI-FOULING AGENT
Nano Polishing Pads
2. Ceramic Glaze
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High Glossy Polishing Glaze
Microcrystal Polishing Glaze
Sugar Effect Glaze
Metal Glaze
3. Brightener for Body
4. Body Pigment
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Washed Ball Clay
China Stone Powder

1-ANTI-FOULING

Nano Parlatma Pedleri

2. Seramik Sırları

Super düz diamond lappato (parlatma)sırı

Yüksek Parlak lappato(parlatma) Sırları

Mikrokristal Parlatma Sırları

SUGAR Sır

Metalik Sır

3. Masse beyazlatıcı

4. masse boyaları

5. Sır Boyaları

6. Tamamlayıcı Malzemeler

Glue

Baskı pastası

Mürekkep Dispersiyon Koruma

Deflokülant

7. Hammadde Serisi

Yıkanmış Kil

Ceramic Glaze Series Seramik Sırları

The compound glazes which developing and producing by DNT are including: Diamond Super Flatness Polishing Glaze, High Glossy Polishing Glaze, Microcrystal Polishing Glaze, Sugar Effect Glaze, Metal Glaze series, etc series products.

DNT tarafından geliştirilen ve üretilen sırlar şşunlardır:

Super düz diamond parlatma (lappato) sır, yüksek parlaklıkta lappato (parlatma) sırları, mikrokristal parlatma sırları, sugar efekt, metalik sırlar vb.

Diamond Super Flatness Polishing Glaze - Super Düz Diamond Lappato

Product Feature: Ürün özellikleri

Moh's hardness ≥ 5 Mohs sertlik

Abrasion class Rpm ≥ 4 Aşınma sınıfı

Super flatness with Texture clearness Süper yüzey düzgünlüğü

Glaze layer transparent to highlight the designs in 3D effect. 3D görsellik

Technological Process - Teknik Proses

Powder→Press→Dryer→Engobe→OP Glaze→Design

Application - Uygulama

TR→Diamond→Glaze→Kiln→Squaring→Polishing→Squaring→NANO Polished→Packing

Material Malzeme	Density Yoğunluk	Consumption/300*300mm 30x30 da sarf miktarı
Engobe	1.83~1.90	35~40g
OP glaze	1.86~1.90	35~40g
TR Diamond glaze	1.88~1.92	70~150g

High Glossy Glaze - Yüksek Parlaklıkta Yüzey Sırı

Product Feature: **Ürün özelliği**

Glaze layer transparent to highlight the designs in 3D effect. Particularly suitable for dark designs.

Özellikle koyu ürünlerde ideal 3 D efekt

Technological Process A : Powder→Press→Dryer→Engobe→OP glaze→Design Application→TR
High Glossy Glaze : Kiln→Squaring→Polishing→Squaring→NANO Polished→Packing

Material Malzeme	Density yogunluk	Consumption /300*300mm 30x30 da sarf miktarı
Engobe	1.83~1.90	35~40g
OP glaze	1.86~1.90	35~40g
TR High Glossy Glaze	1.88~1.92	35~60g

Technological Process B : Powder→Press→Dryer→Engobe→OP Glaze→Design Application →TR

Granular with Glue : Dryer→Kiln→Squaring→Polishing→Squaring→NANO Polished→Packing

Material Malzeme	Density Yoğunluk	Consumption /300*300mm 30x30 da sarf miktarı
Engobe	1.83~1.90	35~40g
OP glaze	1.86~1.90	35~40g
TR Granular with Glue	1.40~1.60	60~100g

Microcrystal Polishing Glaze - Mikrokristal Lappato (Parlatma) Sırı

Product Feature: **Ürün özellikleri**

Super flatness with Texture clearness **Net ve çok düzgün yüzey**

Glaze layer transparent to highlight the designs in 3D effect. **Dizaynı D görmeyi sağlama**

Technological Process: Powder→Press→Dryer→Engobe Glaze→Design application→Protect Glaze→TR
Glaze→Granular Application→Fixative Application→Kiln→Squaring→ Polishing→NANO Polished→Squaring

Material Malzeme	Density Yoğunluk	Consumption /300*300mm 30x30 da sarf miktarı
Engobe glaze	1.83~1.90	35~40g
Protect glaze	1.50~1.75	10~20g
TR glaze	1.50~1.75	10~20g
Granular		180~220g
Fixative	1.03~1.05	5~10g

Sugar Effect - Şeker Efekti

Product Feature: Ürün özelliđi

Granules average and mellow on tile's surface, with reflection effect showing its bright and stereoscopic. Wear-resisting, antifouling, skid resistance.

Granüllerle yüzeyde yumuşak şeker efekti,yansıma,stereskopik parlak görüntü, aşınmaya dayanıklı,

Technological Process: Powder→Press→Dryer→Engobe→OP Glaze→Design
Application→SugarGranular with Glue→Kiln→Squaring→Polishing→Squaring→Packing

Material Malzeme	Density Yoğunluk	Consumption /300*300mm 30x30 da sarf miktarı
Engobe	1.83~1.90	35~40g
OP glaze	1.86~1.90	35~40g
Granular with glue	1.20~1.40	35~40g

Metal Glaze Series - Metalik Sırlar

Product Feature:

Metal texture clearness, Acid and alkali resistant,

metalik görünümlü aside ve alkaliye dayanıklı sırlar

Technological Process: Powder→Press→Dryer→Engobe→MetallicGlaze→Design
application→Kiln→Squaring→Packing

Material Malzeme	Density Yoğunluk	Consumption /300*300mm Sarf 30x30 da
Engobe	1.83~1.90	35~40g
Metallic glaze	1.35~1.45	25~35g

Brightener Series - Masse ağartıcı

Brightener for Body – zirkonyum silikat alternatifi

BT series brightener are a new materials which research and development by our company and instead of the zirconium silicate successfully. BT series brightener instead of the zirconium silicate and effect the good whitening in polishing tile body, which not only have no radioactivity but also can reduce the produce cost substantially, which are a ideal and new materials with low cost and environment protection.

Item Adı	Mesh	Whiteness Beyazlık	Dose Doz	Effect etki
BT08	325Mesh	90	1~20%	1.5%-1.6% BT08 brightener is similar with 1% zirconium silicate's whiteness zirkonyum silikat aynı neticeyi almak için katkı oranı % 1 yeine % 1,5-1,6
BT33	1 MICRON	92	≤2%	Same result as zirconium zirkonyum silikat ile aynı neticeyi almak için birebir aynı oranda kullanılır

Supplementary Materials -Yardımcı malzemeler

Glue

Product Feature:

TN08 Glue has outstanding suspension property, stability and dispersity. It's ideal component for wet process glazing due to its fine caking property with base material which after dried. Particularly suitable for sugar granular.

Basing on the quantity of demand for productions, directly mixing the glue with glaze and stirring averagely.

Name İsim	Code kod	Appearance görünüm	Performance performans	Expiry Date Raf ömrü	Packing Ambalaj
Glue	TN08	Milky or Faint yellow liquid Sarımsı likit	Chemical basis: Mixture of water soluble resin Solubility: water-mixable Density (20°C): approx. 1.03 g/cm ³ Residue on ignition: max. 2% Suda çözünür reçine karışımı yoğunluk (20°C): yaklaşık 1.03 g/cm³ artık: max. 2%	180 Days 180 gün	1000KG IBC Tank or 200KG Plastic Barrel 1000 kg luk tank veya 200 kg plastic fiçıda

Printing Paste

Product feature:

Easy to use, can use in the production line directory when adding glaze and pigment and grinding or stirring to mix well.

Kullanımı kolaydır, sır ve pigment eklerken değirmene veya mikserle katılarak üretilen hatlarda direkt kullanılabilir.

With non-toxic water-based formula, particularly good lubrication, won't be dry, won't stick screen, and can reduce the wiping times effectively.

Can give a perfect printing result, also can be used for repeatedly printing in one tile because of the solid and good pattern.

Toksik olmayan su bazlı formüllü nedeni ile kolay kurumaz,eleğe yapışmaz,bu nedenle temizleme sürelerini oldukça azaltır

All can be burned away and will not affect to the design color, will not sedimentation even long-term storage.

Kolayca yanar,dizayn rengini etkilemez,uzun süreli stokta kalması sedimentasyon yaratmaz

Name isim	Code kod	Appearance görünüm	Performance performans	Expiry Date Raf ömrü	Packing Ambalaj
Printing Paste Baskı pastası	PM90	Translucence or Milky paste Yarı saydam pasta	Chemical basis: Mixture of water soluble resin Solubility: water-miscible Density (20°C): approx. 1.05 g/cm ³ Residue on ignition: max. 2% Suda çözünür reçine karışımı yogunluk (20°C): yaklaşık. 1.03 g/cm³ artık: max. 2%	180 Days 180 gün	1000KG IBC Tank or 50KG Plastic Barrel 1000 kg luk tank veya 50 kg plastic fiçıda

Insulate Agent

Application Method:

Using after digital printing, to prevent the phenomena of ink excluding during glazing, Particularly suitable for dark color designs printing.

Koruyucu

Dijital baskı sonrası mürekkebi korumak için.Koyu renkler için ideal

Name isim	Code kod	Appearance görünüm	Performance performans	Expiry Date Raf ömrü	Packing Ambalaj
Insulate Agent Mürekkep Koruyucu	PM93	Translucence or Milky liquid Yarı saydam pasta	Chemical basis: Mixture of water soluble resin Solubility: water-miscible Density (20°C): approx. 1.05 g/cm ³ Residue on ignition: max. 3% Suda çözünür reçine karışımı yoğunluk (20°C): yaklaşık. 1.03 g/cm ³ artık: max. 3%	1 Year 1 sene	1000KG IBC Tank or 50KG Plastic Barrel 1000 kg luk tank veya 50kg plastic fiçıda

Ink Dispersing Proof Agent - Mürekkep koruyucu

Using after digital printing, to prevent the phenomena of ink excluding during glazing, Particularly suitable for dark color designs printing.

When used Ink Dispersing Proof Agent can be mixing with glaze or spraying before glazing, suggested usage 0.3-0.5%.

Sırlama öncesi %0,3-0,5 sıra ve spraye katılır

Name Adı	Code Kod	Appearance Görünüm	Performance Performans	Expiry Date Raf ömrü	Packing Ambalaj
Ink Dispersing Proof Agent Mürekkep koruyucu	S60	Transparent viscid liquid Şeffaf, yapışkan likit	Active matter: approx. ≥ 95 % Solubility: water-mixable Density (20°C): approx. 1.10 g/cm ³ Aktif malzeme yaklaşık %95 çözünürlük: suda çözülür yoğunluk (20°C): yaklaşık. 1.10 g/cm ³	1 Year 1 yıl	25KG Plastic Barrel 25kg plastic fiçi

Efficient Deflocculating Agent - Verimli Deflokulan

PC67 used for glaze slurry performance adjustment, superior performance in deflocculating, Particularly suitable for the glaze slurry which is easily getting thixotropy - suggested usage 0.3-0.5%.

Name Adı	Code Kod	Appearance Görünüm	Performance Performans	Expiry Date Raf ömrü	Packing Ambalaj
Efficient Deflocculating Agent Deflokulant	PC67	Claybank Liquid	Active matter: approx. 50 % Solubility: water-mixable Density (20°C): approx. 1.30 g/cm ³ Aktif malzeme yaklaşık %50 çözünürlük: suda çözülür yoğunluk (20°C): yaklaşık. 1.30 g/cm³	1 Year 1 yıl	25KG Plastic Barrel 25 kg plastic fiçi

Film Anti-sticking Agent

Product feature:

This product is the liquid of emulsion dispersion from high-molecular polymer, has its outstanding lubricity, Particularly suitable for large area of printing, multiple printing, thick film printing and metal glaze printing.

Basing on production demand normally add 0.3~ 1%, can be directly add into glaze slurry for mixing averagely.

Name Adı	Code Kod	Appearance Görünüm	Performance Performans	Expiry Date Raf ömrü	Packing Ambalaj
Film Anti-sticking agent Yapışma önleyici film	F03	faint yellow to dark brown liquid açık sarıdan koyu kahverengine kadar sıvı	Chemical basis: Low molecular polymer, organic solvent, Special dispersant etc. Density: approx. 1.05 Organik solvent, düşük polimer molekül yoğunluk yaklaşık 1.05. Özel dispersant	1 Year 1 yıl	25KG Plastic Barrel 25 kg plastic fiçi

Binder for Body - Masse Bağlayıcı

Our company's body binder has two series: Powder Form Solid Binder and Liquid Form Binder. Powder Form Solid Binder can be put into the ball mill and mill it with the raw materials, also can be soluble in water to become sticky liquid to mix averagely with the slurry which had been milled.

Liquid Form Binder can be put into the ball mill and mill it with the raw materials or directly add into the slurry which had been milled with a certain ratio and mixing averagely, it will neither increase the viscosity of slurry nor change the flowing property of slurry.

Toz ve likit iki tipi vardır. Her ikisi de değirmene katılabilir. Likit tip direct çamura da katılabilir. Çamura katıldığında viskositeyi ve akışkanlığı etkilemez

Name Adı	Code kod	Appearance görünüm	Performance performans	Expiry Date raf ömrü	Packing ambalaj
Binder for Body Masse Bağlayıcı	DBS-01	White powder Beyaz toz	Increasing strength of green body Pişme öncesi bünye kuvvetlendirici	1 Year 1 yıl	25KG in Bag 25 kg torbalarda
Binder for Body Masse Bağlayıcı	DBL-02	Transparent viscid liquid Şeffaf yapışkab sıvı	Increasing strength greatly of green body, reducing the clay quantity in formula Pişme öncesi bünye kuvvetlendirici ,kil oranını azaltmaya katkı	1 Year 1 yıl	200KG Plastic barre 200 kg plastic fiç i
Binder for Body Masse Bağlayıcı	DBL-03	Milky viscid liquid Şeffaf yapışkab sıvı	Increasing strength greatly of green body, reducing the clay quantity in formula, suitable for sanitary ware Pişme öncesi bünye kuvvetlendirici ,kil oranını azaltmaya katkı, saniter için ideal	1 Year 1 yıl	50KG/200KG Plastic barrel 50kg/250 kg plastic fiç i

Body Pigment Series - Masse Renklendiriciler (renkler için kataloga bakınız)

Body pigments are suitable for coloring the ceramic body, which are various of additive dosages and use methods for users' different requirements. Grain: $\leq 1\%$, water percentage: $\leq 0.5\%$.

Code kod	Color renk	Component muhteviyat	°C Max firing Temp. max pişirme derecesi C	Remarks	Color Stain Katalogdan bakınız
DB1001	(Red)	Fe	1200		
DB1303B	(Coral Pink)	Al-Fe	1250		
DB1031B	(Mn- red)	Mn-Al	1250		
DB1621B	(Desert Red)	Si-Al-Lr	1250		
DB2035B	(Orange yellow)	Ti-Sb-Cr	1250		
DB2036B	(Orange red)	Ti-Sb-Cr	1250		
DB3038B	(Pr-yellow)	Zr-Si-Pr	1300		
DB3088B	(Pr-yellow)	Zr-Si-Pr	1300		
DB3154B	(Bright yellow)	Ti-Sb-Cr	1250		
DB4302B	(Cobal blue)	Co-Al	1300		
DB4503B	(V-blue)	Zr-V-Si	1300		
DB6001B	(Peacock green)	Zn-Co--Cr-Al	1300		
DB6002B	(peacock green)	Zn-Co--Cr-Al	1300		
DB6033	(green)	Cr-Al	1300		
DB6035	(green)	Cr-Al	1300		
DB8052B	(coffee)	Fe-Cr-Si-Zn	1300		
DB9023B	(black)	Cr-Fe-Co-Mn	1300		

Glaze Pigment Series - Sır Boyaları (Renkler için kataloga bakınız)

Glaze pigments are suitable for indoors & outdoors wall & floor tile, sanitary ware, and table ware. There are various of additive dosages and use methods for users' different requirements. Grain: 325 mesh screen $\leq 0.5\%$, water percentage: $\leq 0.5\%$.

Code	Color	Component	°C Max firing Temp.	Remarks	Color Stain
DY1073	(Included Red)	Zr-Si-Cd-Se	1300		
DY3701	(Included yellow)	Zr-Si-Cd-Se	1300		
DY1004	(Coral Red)	Zr-Si-Fe	1300		
DY1223	(Rose Red)	Sn-Cr-Ca-Si	1300		
DY3038	(Pr-yellow)	Zr-Si-Pr	1300		
DY3088	(Pr-yellow)	Zr-Si-Pr	1300		
DY4008	(V blue)	V-Zr-Si	1300		
DY4103	(Peacock blue)	Co-Cr	1300		
DY4201	(cobalt blue)	Al-Si	1300		
DY4302	(cobalt blue)	Al-Co	1300		

DY5002	(red brown)	Fe-Cr-Zn-Al	1300		
DY5202	(golden brown)	Fe-Cr-Zn-Al	1300		
DY5203	(yellow brown)	Fe-Cr-Zn-Al	1300		
DY5302	(golden yellow)	Fe-Cr-Zn	1300		
DY5305	(golden red)	Fe-Cr-Zn	1300		
DY6001	(Peacock Green)	Co-Cr	1300		
DY6203	(apple green)	Zr-Pr-V-Si			
DY8001	(Silver Gray)	Sb-Sn	1300		
DY9603	(black)	Ni-Mn-Cr-Fe-C u	1300		

Raw Materials

WBC80/WBC90 Washed ball clay WBC80/WBC90

Yıkılmış Kil

Technical data

Physical Property Fiziksel Özellikler			Chemical composition Kimyasal kompozisyon		
	WBC80	WBC90		WBC80	WBC90
Moisture%	≤30	≤30	SiO ₂	< 55	< 55
100mesh residue, %	/	/	Al ₂ O ₃	> 30	> 30
w-d shrinkage, %	5.50~6.00	5.30~5.80	Fe ₂ O ₃	0.65~0.85	0.40~0.50
Strength, MPa	≥4.5	≥4.5	TiO ₂	0.60~0.75	0.50~0.60
d-f shrinkage, %	6.7	6.7	CaO	0.2~0.40	0.2~0.40
Water absorption, %	18	18	MgO	0.10~0.25	0.10~0.25
Whiteness, %	≥75	≥82	K ₂ O	0.70~1.20	0.20~0.50
L	≥92.00	≥93.60	Na ₂ O	0.20~1.00	0.10~0.30
a	1.50~2.20	0.50~1.00	LOI	<14	<14
b	5.00~6.00	1.80~2.20			

Fired shrinkage, water absorption and whiteness are tested by 1200°C and keep 30 minutes

1. CHINA STONE POWDER

Physical Property		Chemical composition	
Moisture%	≤1.0	SiO ₂	< 74.00
200 mesh residue, %		Al ₂ O ₃	> 17.00
w-d shrinkage, %		Fe ₂ O ₃	< 0.15
Strength, MPa		TiO ₂	< 0.15
d-f shrinkage, %		CaO	0.30~0.60
Water absorption, %		MgO	0.10~0.20
Whiteness, %	≥70	K ₂ O	3.90~4.30
L	≥88	Na ₂ O	2.80~3.20
a	0.20~0.30	Li ₂ O	1.30~1.45
b	3.30~4.40	LOI	<2.40